IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Accompanying Continuation Application Under 37 CFR 1.53(b):

Prior Application: T. TOMARU et al
Serial No. 09/503,739
Filed: February 15, 2000

Group Art Unit: 2877
Examiner: Delma R. Flores Ruiz
For: SOLID-STATE LASER COMPENSATED FOR PUMPING-LIGHT ASTIGMATISM

PRELIMINARY AMENDMENT

Commissioner of Patents
Washington, D.C. 20231

February 28, 2002

Sir:

Prior to examination, please amend the above application as follows.

IN THE SPECIFICATION

Page 1, before the first line, add the paragraph:

This is a continuation application of U.S. Serial No. 09/503,739, filed February 15, 2000, now allowed.

IN THE CLAIMS

Cancel claims 1-16 without prejudice or disclaimer, and add new claims 17-25 as follows.

17. (New) A solid-state laser comprising:

a light source;

a first concave mirror which passes selectively output light generated by said light source according to a wavelength;

a gain crystal having a garnet crystal structure, which is pumped up by the light that has passed said first concave mirror;

a cavity having said gain crystal as a main element thereof; and

a lens which is tilted from a line of transmitted direction of the pump light in order that laser operation in said cavity is Kerr-lens mode locked.

18. (New) A solid-state laser according to claim 17, said cavity further comprising:

second and third concave mirrors which are arranged to focus the light oscillated in said cavity in said gain crystal;

an end mirror which reflects the light oscillated in said cavity; and

an output mirror which passes a part of the light oscillated in said cavity as output laser light.

19. (New) A solid-state laser according to claim 17, said cavity further comprising:

a means for compensating for a dispersion which is generated in said gain crystal.

20. (New) A solid-state laser according to claim 19, said cavity comprising:

second and third concave mirrors which are arranged to focus the light oscillated in said cavity in said gain crystal;

a means for compensating for a dispersion which is generated in said gain crystal;

an end mirror which reflects the light oscillated in said cavity; and

an output mirror which passes a part of the light oscillated in said cavity as output laser light.

21. (New) A solid-state laser according to claim 20, wherein said compensating means is a pair of prisms.

22. (New) A solid-state laser according to claim 19, said cavity further comprising:

a second concave mirror which is arranged to focus the light oscillated in said cavity in said gain crystal; and

a prism for compensating for a dispersion which is generated in said gain crystal.

23. (New) A solid-state laser according to claim 17, said cavity comprising:

second and third concave mirrors which are arranged to focus the light oscillated in said cavity in said gain crystal;

a means for compensating for a dispersion which is generated in said gain crystal; and

an output mirror which passes a part of the light oscillated in said cavity as output laser light.

24. (New) A solid-state laser according to claim 23, wherein said compensating means is a prism.

25. (New) A solid-state laser according to claim 23, wherein said compensating means is a combination of a prism and said second and third concave mirrors.

REMARKS

Examination is requested.

Respectfully submitted,

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